

Title (en)
METHOD FOR PROCESSING ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL, NETWORK-SIDE DEVICE AND USER EQUIPMENT

Title (de)
VERFAHREN ZUR VERARBEITUNG EINES E-PDCCH, NETZWERKSEITIGE VORRICHTUNG UND BENUTZERVORRICHTUNG

Title (fr)
PROCÉDÉ POUR LE TRAITEMENT D'UN CANAL DE COMMANDE DE LIAISON DESCENDANTE PHYSIQUE AMÉLIORÉ, DISPOSITIF CÔTÉ RÉSEAU ET ÉQUIPEMENT UTILISATEUR

Publication
EP 2903370 A4 20150923 (EN)

Application
EP 12887453 A 20121030

Priority
CN 2012083774 W 20121030

Abstract (en)
[origin: EP2903370A1] The present invention provides a method for processing an enhanced physical downlink control channel, a network-side device, and a user equipment. The method includes: notifying a user equipment UE of M physical resource block PRB sets used for EPDCCH transmission and N reference signal RS configurations used for EPDCCH DCI rate matching and/or EPDCCH resource mapping, and notifying the UE of correspondence between the M PRB sets and the N RS configurations, where N is a positive integer greater than 1, and M is a positive integer; and performing the EPDCCH DCI rate matching and/or the EPDCCH resource mapping according to the correspondence between the M PRB sets and the N RS configurations. In embodiments of the present invention, a network-side device configures a PRB set and multiple RS configurations corresponding to different cells or network nodes, and notifies an UE of the PRB set, the RS configurations, and correspondence between them, so that the UE can select a cell or network node used for EPDCCH reception, thereby improving flexibility of EPDCCH transmission.

IPC 8 full level
H04L 5/00 (2006.01); **H04W 72/04** (2009.01)

CPC (source: EP RU US)
H04L 5/001 (2013.01 - RU); **H04L 5/0048** (2013.01 - RU); **H04L 5/0053** (2013.01 - EP RU US); **H04W 72/23** (2023.01 - US);
H04L 5/001 (2013.01 - EP US); **H04L 5/0048** (2013.01 - EP US); **H04L 5/0094** (2013.01 - EP US)

Citation (search report)

- [X] FUJITSU: "Rate matching vs puncturing of ePDCCH", 3GPP DRAFT; R1-122067 RATE MATCHING, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. Prague, Czech Republic; 20120521 - 20120525, 12 May 2012 (2012-05-12), XP050600356
- [X] ERICSSON ET AL: "Mapping of ePDCCH to RE", 3GPP DRAFT; R1-122000 MAPPING OF EPDCCH TO RE, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. Prague, Czech Republic; 20120521 - 20120525, 12 May 2012 (2012-05-12), XP050600292
- [I] NEC GROUP: "DCI Multiplexing for E-PDCCH", 3GPP DRAFT; R1-120257, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. Dresden, Germany; 20120206 - 20120210, 31 January 2012 (2012-01-31), XP050562811
- [A] PANASONIC: "ePDCCH rate matching / puncturing and colliding signals analysis", 3GPP DRAFT; R1-122200_CLEAN, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. Prague, Czech Republic; 20120521 - 20120525, 12 May 2012 (2012-05-12), XP050600464
- See references of WO 2014067074A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2903370 A1 20150805; EP 2903370 A4 20150923; EP 2903370 B1 20180221; CN 104081846 A 20141001; CN 104081846 B 20180306; CN 108494536 A 20180904; EP 3361805 A1 20180815; EP 3361805 B1 20190925; ES 2760478 T3 20200514; RU 2604639 C1 20161210; US 10555292 B2 20200204; US 2015230220 A1 20150813; US 2018110034 A1 20180419; US 9867176 B2 20180109; WO 2014067074 A1 20140508

DOCDB simple family (application)
EP 12887453 A 20121030; CN 2012083774 W 20121030; CN 201280002548 A 20121030; CN 201810150101 A 20121030; EP 17208819 A 20121030; ES 17208819 T 20121030; RU 2015120562 A 20121030; US 201514698447 A 20150428; US 201715845018 A 20171218